

## ABSTRACT OF THE DISCLOSURE

A method of producing a porous glass-particle-deposited body by effectively depositing the glass particles synthesized by a burner for synthesizing glass particles on a starting member with increased bonding strength between the deposited glass particles and decreased possibility of developing cracks and other problems, and a burner to be used for the production method. In the method of producing the deposited body by depositing the glass particles synthesized by a burner on the surface of the starting member, the glass particle deposition surface has (a) a region that is hit by the center portion of the flame issuing from the burner and (b) another region that has a temperature higher than that of the region hit by the center portion of the flame and that is located at the outside of the region hit by the center portion of the flame.